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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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1. On 2 June 1952, the Zentralamt fuer Forschung und Technik (ZAFT) of the East German State Planning Commission called a meeting of the principal scientific and industrial technicians engaged in ultrasonic research and development for the purpose of improving coordination and furthering ultrasonic work in East Germany. The meeting took place at Funkwerk Koepenick.
 2. The following is a list of the participants in the meeting:

2. The following is a list of the participants in the meeting:

a.	Chrappek, (fmu)	ZAFT
b.	Dr. Burghardt, (fmu)	ZAFT
c.	Dr. Kautsch, (fmu)	ZAFT
d.	Dr. Martin (fmu)	V&B Carl Zeiss, Jena
e.	Dr. Tielsch, (fmu)	Institute for Experimental Physics, Halle University
f.	Engineer Goebel, (fmu)	RFT Funkwerk Erfurt
g.	Jacob, (fmu)	Institute for Theoretical Physics, Rostock University
h.	Schalweit, (fmu)	Institute for Theoretical Physics, Rostock University
i.	Witzsche, (fmu)	Technical-Physical Institute, Jena
j.	Dr. Willmer, (fmu)	Bergakademie Freiberg
k.	Uhlig, (fmu)	Deutsches Amt fuer Material- und Warenpruefung, Forschungsanstalt Leipzig
l.	Prof. Dr. Schiebold, (fmu)	Deutsches Amt fuer Material- und Warenpruefung, Forschungsanstalt Leipzig
m.	Chief surgeon Dr. Vollmann (fmu)	Policlinic, Magistrate of Great Berlin
n.	Dr. Doelle, (fmu)	Academy Institute for Medicine and Biology, Berlin-Buch
o.	Prof. Dr. Eckert, (fmu)	Technical-Physical Institute, Ministry for General Machine Construction
p.	Strahler, (fmu)	Physiological Institute, Leipzig University.
q.	Dr. Frucht, (fmu)	

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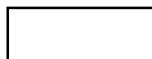
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r. Dr. Beier, (fmu)	Physical Institute, Leipzig University
s. Dr. Kaiser, (fmu)	Funkwerk Koepenick
t. Spengler, (fmu)	Deutsches Amt fuer Mass und Gewicht (DAMW), Berlin
u. Dr. Schwarzer, (fmu)	TRARO (former Koch und Sterzel), Dresden

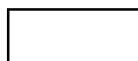
3. The following list was compiled at the meeting in order to obtain a clear picture of current East German ultrasonic research and development, particularly of the persons and institutes engaged in such tasks and the main lines of work being pursued; this list allegedly includes all work of importance now in progress, the places where it is being carried out and the persons directing the work:

- a. Dr. Frucht, Physiological Institute, Leipzig University:
Sound speed in biological tissue
- b. Dr. Martin, VEB Carl Zeiss, Jena:
Development and fabrication of ultra-sound containers (Ultraschalltoepfe); testing of material according to the relief picture procedure; electronic conversion of sound into visible effects; development of equipment with sound performance from 3 to 5 kW for metallurgical purposes.
- c. Dr. Tielsch, Institute for Experimental Physics, Halle University:
Barium-titanate and resonator problems, in cooperation with the Nescho firm, Hermsdorf.
- d. Dr. Spengler, Deutsches Amt fuer Mass und Gewicht, Berlin:
Performance measurement, dosimetry.
- e. Goebel, RFT Funkwerk Erfurt:
Series production of ultra-sound generators with magnetostrictive and piezoelectrical resonators from 150 Watt to 1.5 kW; reflectoscopes; ultrasonic soldering device; ultrasonic device for thickness measurement; containers for biological purposes (Biologenwanne - a container with an ultrasound resonator).
- f. Jacob, Institute for Theoretical Physics, Rostock University:
Sound speed measurement; optical methods for sound measurement in non-transparent mediae; ultra-sound generation with the aid of the electrostrictive effect.
- g. Dr. Willner, Bergakademie Freiberg:
Ultrasonic sirens for the degassing of melted metal; ultrasonic air purifiers.
- h. Prof. Dr. Siebold, DAMW Leipzig:
Ultrasonic examination of industrial devices; methods for the investigation of heavy forgings; ultrasonic probing equipment (Sonden) for material testing with a picture screen affixed to the Sonde.
- i. Dr. Wallmann, Policlinic Berlin:
Ultrasound applied to medical therapeutics.
- k. Dr. Boelle, Academy Institute Berlin-Buch:
Fundamental research; effect of ultra-sound upon biological objects, particularly micro-organisms.
- l. Prof. Dr. Eckart, Technical-Physical Institute, Jena:
Conversion of sound into visible effects; luminescent matter; investigation of objects covered with luminescent matter; elimination of gas from glass (in co-operation with the Schott firm); research on the similarities and differences between ultrasonic and X-ray procedures.
- m. Dr. Schwarzer, TRARO Dresden:
Ultrasonic therapeutic equipment; equipment for the measurement of sound pressure (Schalldruckwaage); electrical wattmeter; ultrasonic dentists' drills.
In cooperation with the Nescho firm, Hermsdorf: development of barium-titanate resonators.
- n. Dr. Begner, Tumor Clinic of the Charite, Berlin:
Application of combined ultrasonic and X-ray radiation for the purpose of diminishing X-ray dosis.
- o. Dr. Approved For Release 2006/02/27 : CIA-RDP80-00810A002200010036-7
Ultrasound interferometer; guiding device for the blind; sound-picture converters.

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4. The meeting resulted in the founding of an "ultrasound work circle" (Ultraschall Arbeitskreis) under the sponsorship of ZAFT. It was decided that the circle should be assigned the following tasks:
 - a. Preliminary coordination of ultrasonic research and development. This was explained to mean that individual fields and tasks should be distributed to the best-suited personnel before the ultrasound research and development plan for 1954 is established.
 - b. Working out of perspective plans for the current and the next Five-Year-Plans.
 - c. Giving of expert opinions on the current ultrasonic development projects.
 - d. Improved cooperation with the Academy of Sciences and industrial enterprises.
 - e. Collective procurement of material.
5. For better future co-ordination of ultrasonic research and development in East Germany, the following three work groups (Arbeitsgruppen) were established at the meeting:
 - a. Fundamental Research - headed by Jacob of the Institute for Theoretical Physics, Rostock University;
 - b. Medical applications - headed by Dr. Wollmann of the Policlinic Berlin;
 - c. Development of devices - headed by Dr. Schwarzer of FRADO, Dresden.

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